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FIRST NAMED INVENTOR APPLICATION NO. FILING DATE ATTORNEY DOCKET NO. CONFIRMATION NO. 09/872,990 05/31/2001 Owen P. Ward 2570LI-1 3149 **EXAMINER** 12/09/2003 23716 7590 ANTHONY ASQUITH HRUSKOCI, PETER A 28-461 COLUMBIA STREET WEST **ART UNIT** PAPER NUMBER WATERLOO, ON N2T 2P5 CANADA 1724

DATE MAILED: 12/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
•	09/872,990	WARD ET AL.
Office Action Summary	Examiner	Art Unit
	Peter A. Hruskoci	1724
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicated. - If the period for reply specified above is less than thirty (30) days of the period for reply is specified above, the maximum statutory of Failure to reply within the set or extended period for reply will, by the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ION. CFR 1.136(a). In no event, however, may a rion. s, a reply within the statutory minimum of third period will apply and will expire SIX (6) MON a statute, cause the application to become AE	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on	6-11,6-16, and 9-18-03.	
2a) This action is FINAL . 2b) ⊠	This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
 4) Claim(s) 1-5,8-23,29 and 30 is/are pending in the application. 4a) Of the above claim(s) 20-23,29 and 30 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 8-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the county of the oath or declaration is objected to by the county of the oath or declaration is objected to by the county of the oath or declaration is objected to by the Example 10 or declaration is objected to by the Example 11 or declaration is objected to by the Example 11 or declaration is objected to by the Example 11 or declaration is objected to by the Example 11 or declaration is objected to by the Example 11 or declaration is objected to by the Example 12 or declaration is objected to by the Example 12 or declaration is objected to by the Example 13 or declaration is objected to by the Example 14 or declaration is objected to by the Example 14 or declaration is objected to by the Example 15 or declaration is objected to by the Example 16 or declaration is objected to by the Example 17 or declaration is objected to by the Example 17 or declaration is objected to by the Example 18 or declaration is objected to by the Example 19 or declaration is objected to by the Example 19 or declaration is objected to by the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected to be a considered in the Example 19 or declaration is objected in the Example 19 or declaration in the Example 19	accepted or b) objected to to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §§ 119 and 120		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the certified copies of the priority document of the certified copies of the application from the International Experiment of the application from the International Experiment of the certified copies of the application from the International Experiment of the section for 13) Acknowledgment is made of a claim for document of the foreign languages of the priority document of the foreign languages. 14) Acknowledgment is made of a claim for document of the first sentences.	iments have been received. Iments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)). I a list of the certified copies not emestic priority under 35 U.S.C. The first sentence of the specific emestic priority under 35 U.S.C. The provisional application has been emestic priority under 35 U.S.C.	received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. § 120 and/or 121 since a specific
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449) Paper N	48) 5) Notice of I	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 8-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christy et al. 5,013,458 in view of Burnham 5,275,733 and Christy et al. 5,851,404. Christy et al. disclose (see col. 3 line 13 through col. 5 line 68) a method for treating sewage sludge substantially as claimed. The claims differ from Christy et al. (458) by reciting that the sludge is maintained at the pH for at least one day or chemicals are added to contribute to viscosity reduction, and the sludge is subjected to physical shearing or disintegration. Burnham disclose (see col. 4 lines 1-33, and Example 1) that it is known in the art to maintain the pH of the sludge at least 12 and add sodium and potassium chloride to the sludge to reduce pathogens and alter the conductivity of the sludge, respectively. Christy et al. (404) disclose (see col. 3 line 30 through col. 6 line 38) that it is known in the art to subject sludge to shearing to aid in reducing the viscosity of the sludge. It would have been obvious to one skilled in the art to modify the method of Christy et al. (458) by maintaining the pH, adding the recited chemicals, and subjecting the sludge to shearing in view of the teachings of Burnham and Christy et al. (404) respectively, to aid in reducing pathogens, altering the conductivity, and reducing the viscosity of the sludge. The specific sequence of steps utilized and the use of a continuous procedure, would have been an obvious matter of process optimization to one skilled in the art, depending on the specific sludge treated and results desired, absent a sufficient showing of unexpected results. With regard to claims 9 and 10, it is submitted that the addition of air in Christy et al. (404) would provide oxygen for the oxidation of the sludge.

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Claims 20-23, 29, and 30 are withdrawn from consideration as being drawn to nonelected inventions. It is noted that the method claims were elected in the paper submitted 10-24-02.

Applicants allege that by combining the step of shearing the sludge with the steps of raising the pH and temperature, the instant method produces beneficial effects that are much greater than would be expected by merely aggregating the separate effects of the two steps. It appears that the teachings of Christy et al. (404) show that shearing of sludge changes the viscosity of the sludge and allows the sludge to flow more readily. It is further noted that the sludge sheared in Christy (404) includes alkaline material to raise the pH to 12 or higher, and has been heated to at least 50 °C. Furthermore, applicants have not supplied sufficient factual evidence to support the above allegation.

This action is not final.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is 703-308-3839. The examiner can normally be reached on Monday through Friday from 6:30AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on 703-308-1261. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Primary Examiner
Art Unit 1724